## Contents

Letters to the Editor		The radio structure of extended quasars. I. A VLBI survey	
The far-infrared/Hα correlation of extreme IRAS galaxies van den Broek, A.C.	L1	of the nuclear emission  Hooimeyer, J.R.A., Barthel, P.D., Schilizzi, R.T.,  Miley, G.K.	18
Submillimeter observations of vibrationally excited NH <sub>3</sub> towards Orion-KL Schilke, P., Güsten, R., Schulz, A., Serabyn, E., Walmsley, C.M.	L5	The radio structure of extended quasars. II. The radio emission on pc- and kpc-scales  Hooimeyer, J.R.A., Schilizzi, R.T., Miley, G.K., Barthel. P.D.	25
A very dense H1 filament within the Local Hot Bubble Wennmacher, A., Lilienthal, D., Herbstmeier, U.	L9	Correlated variations of lines and continuum by disc repro-	
Ground-based searches for interstellar H <sub>2</sub> D <sup>+</sup> van Dishoeck, E.F., Phillips, T.G., Keene, J.,		cessing in NGC 5548 Rokaki, E., Magnan, C.	41
Blake, G.A.  High-velocity OH/IR stars at the Galactic centre van Langevelde, H.J., Brown, A.G.A., Lindqvist, M.,	L13	The integrated radio continuum spectrum of M 33: evidence for free-free absorption by cool ionized gas Israel, F.P., Mahoney, M.J., Howarth, N.	47
Habing, H.J., de Zeeuw, P.T.  Infrared lines as probes of solar magnetic features. IV. Discovery of a siphon flow	L17	ROSAT All Sky Survey observations of IRAS galaxies Boller, T., Meurs, E.J.A., Brinkmann, W., Fink, H., Zimmermann, U., Adorf, HM.	5
Rüedi, I., Solanki, S.K., Rabin, D.	L21	On the possibility of cyclic phase changes in the interstellar	
Identification of CH <sup>+</sup> emission in the Red Rectangle Balm, S.P., Jura, M.	L25	medium of elliptical galaxies  Kritsuk, A.G.	71
Near-infrared images of the 30 Doradus region Rubio, M., Roth, M., Garcia, J.	L29	The central region of NGC 613 revisited Hummel, E., Jörsäter, S.	8:
Cosmology		How active is NGC 4258? Stüwe, J.A., Schulz, H., Hühnermann, H.	383
(RN) Astrophysical implications of a solution in Kaluza- Klein gravity  Wesson, P.S., Lim, P.	373	Faint object camera observations of M 87: the jet and nucleus  Boksenberg, A., Macchetto, F., Albrecht, R.,	
A new method to test the model of the universe Liebscher, DE., Priester, W., Hoell, J.	377	Barbieri, C., Blades, J.C., Crane, P., Deharveng, J.M., Disney, M.J., Jakobsen, P., Kamperman, T.M., King, I.R., Mackay, C.D., Paresce, F., Weigelt, G., Baxter, D., Greenfield, P., Jedrzejewski, R., Nota, A., Sparks, W.B.	39:
Extragalactic astronomy			
Monitoring of the superluminal quasar 4C 34.47 Hooimeyer, J.R.A., Barthel, P.D., Schilizzi, R.T., Miley, G.K.	1	Optical spectroscopy of WR stars in M 33 and M 31. II.  The WO population and discovery of an Ofp/WN 9 star in M 33  Willis, A.J., Schild, H., Smith, L.J.	
Two new candidate superluminal quasars: 4C 28.45 and 4C 21.35  Hooimeyer, J.R.A., Schilizzi, R.T., Miley, G.K.,		The X-ray variability of the Seyfert galaxy NGC 6814 Fiore, F., Massaro, E., Barone, P.	40
Barthel, P.D.  Spectral monitoring of powerful radio sources  Hooimeyer, J.R.A., Miley, G.K., de Waard, G.J., Schilizzi, R.T.	9	(RN) First simultaneous UBVRI photopolarimetric observations of a sample of normal quasars Takalo, L.O., Kidger, M.R., de Diego, J.A., Sillanpää, A.	41

433	A spectroscopic study of luminous peculiar B-type stars Lopes, D.F., Damineli Neto, A., de Freitas Pacheco, J.A.	482
	A simplified model for the tidal effect on accretion disks in cataclysmic variables	
94	Zhong-Yong Zhang, Jian-Sheng Chen (RN) An optical search for $\beta$ Pictoris-like disks around nearby stars	493
105	Smith, B.A., Fountain, J.W., Terrile, R.J.	499
100	Intrinsic parameters of galactic luminous OB stars Herrero, A., Kudritzki, R.P., Vilchez, J.M., Kunze, D.,	209
119	Photoabsorption in magnetic neutron star atmospheres	235
	Optical spectroscopy of post-T Tauri star candidates  Pallavicini, R., Pasquini, L., Randich, S.	245
443	Oxygen abundances in F and G dwarfs derived from the [O1] line at 6300 Å	255
	Effects of sphericity in carbon star atmospheres  Jørgensen, U.G., Johnson, H.R., Nordhund, A.	263
130	CO line formation in bipolar flows. III. The energetics of molecular flows and ionized winds	274
137	Al II as an electron density diagnostic for the upper chro- mosphere/lower transition region in late-type stars	214
145	Aggarwal, K.M., Tayal, S.S.	285
	Howarth, I.D., Schmutz, W.  The eclipsing Wolf-Rayet binary V444 Cygni: modelling the light curve and the belief expectating consistently.	503
154	Hamann, WR., Schwarz, E.	523
157	quence (WC)  Koesterke, L., Hamann, WR., Wessolowski, U.	535
164	Current adjustment in pulsars Lyubarskii, Y.E.	544
188	Milone, A., Barbuy, B., Spite, M., Spite, F.	551
203	Malagnini, M.L., Morossi, C., Buser, R., Parthasarathy, M.	558
451	(RN) Origin of PeV gamma rays from Cygnus X-3 Apparao, K.M.V.	565
457	Diffuse matter in space (including HII regions and planetary	
472	G54.4-0.3: CO shell and star formation region surround-	
475	ing a shell-type supernova remnant. II. Compact CO clouds and the star formation scenario  Junkes, N., Fürst, E., Reich, W.	289
477	A dynamical model for the outer nebula of R Aquarii Henney, W.J., Dyson, J.E.	301
	94 105 119 443 130 137 145 154 157 164 188 203 451 457 472	<ul> <li>Lopes, D.F., Damineli Neto, A., de Freitas Pacheco, J.A.</li> <li>A simplified model for the tidal effect on accretion disks in cataclysmic variables Zhong-Yong Zhang, Jian-Sheng Chen</li> <li>(RN) An optical search for β Pictoris-like disks around nearby stars Smith, B.A., Fountain, J.W., Terrile, R.J.</li> <li>Stellar atmospheres         Intrinsic parameters of galactic luminous OB stars Herrero, A., Kudritzki, R.P., Vilchez, J.M., Kunze, D., Butler, K., Haser, S.         Photoabsorption in magnetic neutron star atmospheres Ventura, J., Herold, H., Ruder, H., Geyer, F.         Optical spectroscopy of post-T Tauri star candidates Pallavicini, R., Pasquini, L., Randich, S.         Oxygen abundances in F and G dwarfs derived from the [O1] line at 6300 Å         Nissen, P.E., Edwardsson, B.         Effects of sphericity in carbon star atmospheres Jorgensen, U.G., Johnson, H.R., Nordlund, A.         CO line formation in bipolar flows. III. The energetics of molecular flows and ionized winds Cabrit, S., Bertout, C.         Al11 as an electron density diagnostic for the upper chromosphere/lower transition region in late-type stars Doyle, J.G., Keenan, F.P., Harra, L.K., Aggarwal, K.M., Tayal, S.S.     </li> <li>Near-infrared spectroscopy of Galactic Wolf-Rayet stars Howarth, I.D., Schmutz, W.</li> <li>The eclipsing Wolf-Rayet binary V444 Cygni: modelling the light curve and the helium spectrum consistently Hamann, WR., Schwarz, E.</li> <li>A grid of models for Wolf-Rayet stars of the carbon sequence (WC)</li></ul>

New photometric and spectroscopic observations of the central star of Abell 35  Jasniewicz, G., Acker, A., Freire Ferrero, R., Burnet, M.	314	The spectrum of Mars in the (1-0) vibrational band of CO Billebaud, F., Maillard, J.P., Lellouch, E., Encrenaz, T.	647
Constraints on cosmic silicates Ossenkopf, V., Henning, T., Mathis, J.S. Chemical abundances of disk planetary nebulae de Freitas Pacheco, J.A., Maciel, W.J., Costa, R.D.D.	567 579	Celestial mechanics and astrometry  On the free precession of white dwarfs  Leins, M., Soffel, M.H., Lay, W., Ruder, H.	658
The physical structure of the small and isolated cometary globule Orion-I-2  Cernicharo, J., Bachiller, R., Duvert, G., González-Alfonso, E., Gómez-González, J.	589	Physical and chemical processes  Dynamo effect at high order approximation  Carvalho, J.C.	348
The Sun  Solar speckle polarimetry  Keller, C.U., von der Lühe, O.	321	Chaotic interaction of charged particles with a gravita- tional wave Varvoglis, H., Papadopoulos, D.	664
Oscillations of the solar chromosphere Kulaczewski, J.	602	Quantum chemical calculations for a better understanding of the mechanism of CH <sub>3</sub> <sup>+</sup> +H <sub>2</sub> radiative association Talbi, D., Saxon, R.P.	671
The effect of a tapered magnetic field on the modal struc- ture in a flux tube Nasiri, S.	615	Instruments, data processing, and computational methods	
The modes of oscillation of a prominence. II. The slab with transverse magnetic field <i>Joarder</i> , <i>P.S.</i> , <i>Roberts</i> , <i>B</i> .	625	Radio-interferometric imaging of very large fields. The problem of non-coplanar arrays Cornwell, T.J., Perley, R.A.	353
The effect of a non-Maxwellian distribution on excitation and ionization of hydrogen in solar flares Peyraud-Cuenca, N.	633	Background events in optical transient searches on astro- nomical plates Varady, M., Hudec, R.	365
The solar system		Laser guide star in adaptive optics: the tilt determination problem  Rigaut, F., Gendron, E.	677
The solar F-corona: calculations of the optical and in- frared brightness of circumsolar dust Mann, I.	329	Young stellar objects in the IRAS point source catalog Prusti, T., Adorf, HM., Meurs, E.J.A.	685
Three-micron observations of comet Austin 1989 c1 Mizutani, K., Nagata, T., Maihara, T., Suto, H., Yamamoto, T.	336	(RN) A simple method to enhance radio polarization fea- tures Milne, D.K.	694
Investigation of macroscopic instabilities at the heliopause boundary surface		Galaxy classification using pattern recognition methods Burda, P., Feitzinger, J.V.	697
Baranov, V.B., Fahr, H.J., Ruderman, M.S.  Approximative methods for calculating the radiation inside a planetary atmosphere	341	(RN) Statistical limits to superresolution Lucy, L.B.	706
Wauben, W.M.F., Hovenier, J.W.	640	Papers accepted for publication in A. & A.	711